Application No.: 10/531,545 Docket No.: 532232000900

AMENDMENTS TO THE CLAIMS

1. (currently amended): A method for identifying an antiviral candidate molecule, which comprises contacting a test molecule with a nucleic acid comprising a nucleotide sequence identical to or substantially identical to a nucleotide sequence in a central flap nucleic acid sequence of a human immunodeficiency virus retrovirus, wherein the central flap nucleic acid comprises a sequence capable of forming a quadruplex structure, and wherein the central flap nucleic acid comprises the nucleotide sequence CAG₄AA (SEQ ID NO:2), and

detecting an interaction between the test molecule and the nucleic acid, whereby a test molecule that interacts with the nucleic acid is identified as an antiviral candidate molecule.

- 2. (currently amended): The method of claim 1, wherein the human immunodeficiency virus retrovirus is selected from the group consisting of human immunodeficiency virus (HIV-1) or <a href="https://human.immunodeficiency.nimmunodeficiency
 - 3-5. (cancelled)

۵

- 6. (original): The method of claim 1, wherein the nucleic acid comprises the nucleotide sequence TTG₆TACAGTGCAG₄AA.
- 7. (original): The method of claim 1, wherein the nucleic acid is incubated in a solution comprising potassium ions.

sd-361743 2

Application No.: 10/531,545 Docket No.: 532232000900

8. (original): The method of claim 1, wherein the quadruplex is an intermolecular structure.

- 9. (previously presented): The method of claim 8, wherein the quadruplex is an intermolecular parallel structure.
- 10. (previously presented): The method of claim 8, wherein the quadruplex is an intermolecular structure formed by a dimer of two intramolecular hairpin structures.
- 11. (original): The method of claim 1, wherein the interaction is detected by circular dichroism.
- 12. (original): The method of claim 1, wherein the interaction is binding of the test molecule to the nucleic acid.

13-14. (cancelled)

- 15. (currently amended): The method of claim [[14]] 1, wherein the system is contacting occurs in a cell.
- 16. (currently amended): The method of claim [[14]] 15, wherein the system is cell is taken from a subject.

sd-361743 3